

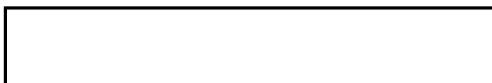
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June 5, 1968

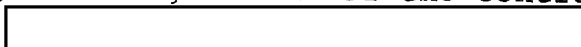
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P.O. Box 8031  
Southwest Station  
Washington, D. C. 20024

Dear Paul:

I am enclosing three copies of a note on  
our trip to Tucson, Arizona, as one of the contract  
requirements under



STAT

Sincerely yours,



STAT

r  
Enclosures

NGA Review Complete

TRIP REPORT

To:

[Redacted]

By:

Date: May 9, 1968

I visited the

[Redacted]

[Redacted] reviewed their program and described some of their plans. He then showed me around their present facilities.

The big thing at the [Redacted] are the plans for the new building. The plans call for 70,000 square feet. Three levels will be below the ground and four levels above the ground are being planned. Provision is being made to provide a 100 foot high vertical test tower in one corner of the building. The tower will allow testing of mirrors up to 240 inches in diameter.

The [Redacted] is rapidly accumulating a staff. They now have a full time academic staff of 8 with a supporting staff around 20 to 30. Plans call for a greatly increased supporting staff and academic staff. They are investigating the possibilities of increasing their coverage by the use of joint appointments. They have established a joint research arrangement with a biologist who has made some interesting advances in character recognition.

The [Redacted] intends to actively engage in research in classical optical instrumentation with a strong emphasis on the use of modern developments. A few of the subjects they intend to press forward on are:

[Redacted]

[Redacted]

2.

Digital image processing  
Analog image processing  
Thin films  
Ionic Polishing  
Atmospheric optics  
Glass physics  
Optical design  
Remote sensing  
Laser studies.

STAT The [ ] has distributed a Newsletter from time to time. This describes their activity and contains interesting technical papers. Copies probably are available by writing to [ ]

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STAT The [ ] now has a mechanical, electrical and optical shop housed in temporary quarters. The optical shop is equipped with two 120" polishing machines which will put them squarely in the field of large optics. Their facilities for small precision optics is modest.

STAT The plans for the [ ] are ambitious, but thoughtful. Their aim is to be the foremost [ ] in the country and their plans are what it will take to do the job. If they manage to get the funds to do this on schedule, it will mean that Tucson will be a leader in this field.

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STAT Their plans are in direct competition with the [ ] and with the plans of at least three of the optical companies directly involved in this type of development activity. It is difficult to see how the country can justify vigorous programs of this nature in several separate locations. On the other hand, it is not healthy to depend on one facility. In our opinion some good governmental planning is needed to see that these facilities do grow at reasonable rates without siphoning off all the funds from other groups. [ ] and limited company effort may be all the large optics projects

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3.

this country needs. It would be very unwise for other groups to contemplate duplicating these facilities before first looking these over carefully.

It appears that other groups working in optical science should concentrate their efforts on small, ultra precise instrumentation.